

INTERACTIVE WAGERING SYSTEMS
FOR PROVIDING WAGERING INFORMATION
AND METHODS OF USE

[0001] This application claims the benefit of United States provisional patent application No. 60/194,908, filed April 5, 2000, which is hereby incorporated by reference herein in its entirety.

Background of the Invention

[0002] This invention relates to interactive wagering, and more particularly, to interactive wagering applications that automatically provide information related to wagering.

[0003] Wagering is a popular leisure activity. For example, many racing fans wager on events such as horse, dog, and harness racing. However, it may be inconvenient to attend racing events in person. Not all racing fans have sufficient time to visit racetracks as often as they would like and some fans have difficulties in obtaining suitable transportation to the track. Off-track betting establishments are available for fans who cannot attend racing events in person, but fans must still travel to the off-track betting establishments.

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described scenarios. The present invention may provide information related to other wagering scenarios.

[0011] For example, a user may be provided with an opportunity to create a wager for a specific race. After creating the wager, the user may follow one of at least two possible paths. In one path, the user may create and place the wager. In another path, the user may create the wager but may not place the wager. If the user creates and places the wager, the user may be automatically provided with the results of the wager after the race is completed. If the user creates the wager but does not place the wager, the user may be automatically provided with an opportunity to place the wager before the specific race begins. If the user chooses to place the wager, the user may be provided with the results of the wager after the race is completed.

Brief Description of the Drawings

[0012] The above and other objects of the present invention will be apparent upon consideration of the following detailed description, taken in conjunction with the accompanying drawings, in which like reference characters refer to like parts throughout, and in which:

[0013] FIG. 1 is a schematic diagram of an illustrative interactive wagering system in accordance with one embodiment of the present invention;

[0014] FIG. 2 is a schematic diagram of illustrative user television equipment in accordance with one embodiment of the present invention;

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[0015] FIG. 3 is a schematic diagram of additional illustrative user television equipment in accordance with one embodiment of the present invention;

[0016] FIG. 4 is a schematic diagram of illustrative user computer equipment in accordance with one embodiment of the present invention;

[0017] FIG. 5 is a diagram of an illustrative user cellular telephone equipment in accordance with one embodiment of the present invention;

[0018] FIG. 6 is a schematic diagram of illustrative user equipment in accordance with one embodiment of the present invention;

[0019] FIGS. 7-12 show illustrative screens for creating a wager suitable for use with the systems and methods of the present invention;

[0020] FIG. 13 shows an illustrative indicator display that may be provided as an overlay on top of a video or application in accordance with one embodiment of the present invention;

[0021] FIG. 14 shows another illustrative indicator display that may be provided as an overlay on top of a video or application in accordance with one embodiment of the present invention;

[0022] FIG. 15 shows yet another illustrative indicator display that may be provided as an overlay on top of a video or application in accordance with one embodiment of the present invention;

[0023] FIG. 16 shows an illustrative indicator window that may be provided as an overlay on top of a computer application in accordance with one embodiment of the present invention;

[0024] FIG. 17 shows a cellular telephone display containing an illustrative information that may be

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provided in accordance with one embodiment of the present invention; and

[0025] FIG. 18 is a flow chart of illustrative steps involved in automatically providing a user with information related to a wager in accordance with one embodiment of the present invention.

Detailed Description of the Preferred Embodiments

[0026] An illustrative interactive wagering system 10 in accordance with the present invention is shown in FIG. 1. Aspects of the invention apply to various different types of wagering, but are described herein primarily in the context of interactive wagering on races (e.g., horse races) for specificity and clarity.

[0027] Races may be run at racetracks 12 that may be located at various geographic locations. Races run at racetracks 12 may be simulcast to viewers via television, personal computer, wireless device or any other suitable device. Such devices may be capable of receiving and displaying video via links such as cable, broadband, satellite, or any other suitable link.

[0028] Interactive wagering system 10 may be used to provide an interactive wagering service to users of various user equipment. An interactive wagering application may be used to provide users with the ability to use the interactive wagering service. In one suitable approach, the interactive wagering application may run locally on user equipment. User equipment may include a set-top box, a personal computer, a cellular telephone, a handheld computing device, or any other suitable device. In another suitable approach, the interactive wagering application

may run using a client-server or distributed architecture where a portion of the interactive wagering application may be implemented locally on the user equipment in the form of, for example, a client process. Another portion of the interactive wagering application may be implemented at a remote location, such as on a server or any other suitable equipment as, for example, a server process. These arrangements are merely illustrative. Any other suitable arrangement for implementing the interactive wagering application may be used.

[0029] Real-time videos from racetracks 12 may be provided to video production system 14 for distribution to users as part of an interactive television wagering service. For example, the videos may be provided via a wagering-related television channel, via an Internet-delivered service, or via any other suitable technique. In one suitable approach, multiple simulcast videos may be provided to video production system 14 in real-time. Talent (e.g., commentators) may be provided by the interactive television wagering service using, for example, studio 16. Studio 16 may provide a video feed including commentary and the like to video production system 14. Graphic overlays for the television wagering service may be added to the service at video production system 14.

[0030] The interactive television wagering service may use video production system 14 to combine selected video segments from desired racing simulcasts with the video feed from studio 16 and suitable graphic overlays. In one suitable approach, video production system 14 or a separate facility may be used to reformat simulcasts from racetracks 12. For example,

if racetracks 12 provide simulcasts as traditional analog television channels, video production system 14 (or a separate facility) may convert these simulcasts or portions of these simulcasts into digital signals (e.g., digital video signals) or into a different number of analog signals. Digital video signals may require less bandwidth than analog video signals and may be appropriate for situations in which videos are to be transmitted over either high or low bandwidth pathways. Low bandwidth pathways may include telephone lines, the Internet, or any other suitable pathway.

[0031] Video production system 14 may be used to provide an interactive television wagering service that may include selected simulcast videos from racetracks, video from studio 16, and graphic overlays to television distribution facilities 18 (for redistribution to user television equipment 22 and user computer equipment 20), to user computer equipment 20, and to user telephone equipment 32 (if user telephone equipment 32 has a display capable of displaying moving images). Television distribution facilities 18 may be any suitable facilities for supplying television to users, such as cable system headends, satellite systems, broadcast television systems, or other suitable systems or combinations of such systems. User computer equipment 20 may be any suitable computer equipment that supports an interactive wagering application. For example, user computer equipment 20 may be a personal computer. User computer equipment 20 may be based on a mainframe computer, a workstation, a networked computer or computers, a laptop computer, a notebook computer, a handheld computing device such as a personal digital assistant or other small portable computer, or any other suitable equipment.

[0032] Each of television distribution facilities 18 is typically located at a different geographic location. Users with user television equipment 22 may receive the interactive television wagering service from an associated television distribution facility. User television equipment 22 may include, for example, a television or other suitable monitor. A television may be used to watch the interactive television wagering service on a traditional analog television channel. User television equipment 22 may include a digital or analog set-top box connected to a television distribution facility 18 by, for example, a cable path. A digital set-top box may be used to receive the interactive television wagering service on a digital channel. In one suitable approach, user television equipment 22 may contain a satellite receiver, a WebTV[®] box, a personal computer television (PC/TV), or hardware similar to such devices into which set-top box capabilities have been integrated. A recording device such as a videocassette recorder or digital recording device (e.g., a personal video recorder (PVR) or digital video recorder (DVR) based on hard disk drives or the like) may be used in user television equipment 22 to store videos. The recording device may be separate from or part of the other components of user television equipment 22.

[0033] Illustrative user television equipment 46 is shown in FIG. 2. Set-top box 50 may receive television programming and data at input 48. Set-top box 50 may have analog and digital television tuning circuitry for handling analog and digital television signals. Television signals may be passed to videocassette recorder 54, that may be separate from the hardware

2025 RELEASE UNDER E.O. 14176

[0034] Videocassette recorder 54 may be connected to television 58. Television programming and graphic display screens generated by applications implemented using set-top box 50 may be passed from set-top box 50 to television 58 through videocassette recorder 54.

[0036] A remote control 60 such as an infrared remote control may be used to control set-top box 50, videocassette recorder 54, and television 58. Remote control 60 may have buttons 62 such as a power button, right, left, up, and down arrow keys, an OK or select key, a favorites or fav key, a lock or parental control key, and any other suitable key.

[0037] Illustrative user television equipment 66 based on a digital video recorder 70 is shown in FIG. 3. Digital video recorder 70 may receive television programming and may access interactive services using input 68. Digital video recorder 70 may

subscription management system 24. For example, video clips may be provided to the user on-demand. Interactive advertisements may be provided to the user. When the user selects a desired advertisement, transaction processing and subscription management system 24 may provide additional information or other services related to the advertisement to the user.

[0046] Product ordering services may be implemented using computer equipment 26 at transaction processing and subscriber management system 24 to handle orders and to assist in adjusting the appropriate account of the user accordingly. Orders may be fulfilled using merchandise fulfillment facilities 34. Merchandise fulfillment facilities 34 may be operated solely to provide merchandise fulfillment or may be associated with independently-operated mail-order or on-line businesses. Similar facilities may be used to allow users to order services.

[0047] Statistical racing data such as the post times for each race, jockey names, runner names and the number of races associated with each track, weather conditions at various tracks, and handicapping information, for example, information on past performances such as the number of wins and losses for each horse in the past year, or any other suitable information, may be provided by racing data collection and processing system 28. Some of the data may be collected from racetracks 12 and some may be provided by third party information sources such as Equibase Company, L.L.C. of Lexington, Kentucky or by any other suitable data sources.

[0048] Racing data may be provided from totalisators 30. Totalisators 30 are the computer

2025 RELEASE UNDER E.O. 14176

systems that may be used to handle wagers made at the racetracks, made at off-track betting establishments, and made using interactive wagering system 10. Totalisators 30 may place wagers into applicable wagering pools. Totalisators 30 generate wagering odds in real time. Totalisators 30 generate these odds based on information on which wagers are being placed, for example, based on information on which wagers are being placed on races at racetracks 12.

Totalisators 30 are available from companies such as Amtote International, Inc. of Hunt Valley, Maryland.

Totalisators 30 may be associated with individual racetracks 12 or groups of racetracks 12.

Totalisators 30 may communicate with one another using a communication protocol known as the Intertote Track System Protocol (ITSP). This allows totalisators 30 to share wagering pools. Totalisators 30 may provide racing data including information on the current races at racetracks 12, the number of races associated with each racetrack, win, place, and show odds and pool totals for each horse or other runner, and exacta, trifecta, and quinella payoff predictions and pool totals for every possible combination of runners. Totalisators 30 may provide current odds and other real-time racing data for other types of wagers. Totalisators 30 may provide the time until post time for each race.

[0049] Totalisators 30 may provide race results, such as the order-of-finish list for at least the first three positions and payoff values versus a standard wager amount for win, place, and show, for each runner in the finish list. Payoff values may be provided for winning complex wager types such as exacta, trifecta, quinella, pick-n (where n is the number of races

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customer service facility 36, or video production system 14, as shown in FIG. 1. A power switch 94 may be used to turn cellular telephone 90 on and off. A speaker 96 may allow the user to listen to conversations and to listen to audio prompts from, for example, transaction processing and subscription management system 24, as shown in FIG. 1. A microphone 98 may allow the user to converse with others. Display 100 may be a liquid crystal display (black and white or color), a plasma display, a light-emitting diode display, an active matrix display, or any other suitable type of small display screen. Keys 102 may allow the user to enter inputs. Numeric keys 102, including the star and pound key, may allow the user to respond to interactive voice response system prompts, such as "press 3 to select race 3," and may allow the user to enter numbers to select numerically identified on-screen menu options and the like that are displayed on display 100. In one suitable approach, some of the numeric keys 102 may perform secondary functions if, for example, they are pressed and held for at least a predetermined length of time. Clear key 104 may be used to clear characters from display 100. If the user presses and holds clear key 104, the user may be taken back to the initial screen displayed on display 100 upon power up. Navigation key 106 may be used to access menus, make telephone calls, or perform any other suitable function. Scroll keys 108 may be used to scroll through menus and to scroll through other items presented on display screen 100.

[0056] A generalized schematic diagram of user equipment, such as user television equipment 22, user computer equipment 20, and user telephone equipment 32

of FIG. 1, is shown in FIG. 6. Control circuitry 112 and memory and storage 114 may have communications, memory, and processing circuitry suitable for supporting functions such as receiving television programming, recording videos in storage, and accessing interactive services over line 110. Line 110 may be coupled to communications paths such as paths 42, 44c, 44d, 44f-i, 44m, and 44n of FIG. 1. Television programming and text, graphics, and video associated with interactive services may be presented to the user using display 116. Display 116 may be a television, a computer monitor, or any other suitable display equipment.

[0057] The user may interact with control circuitry 112 using any suitable user input device 118, such as a remote control, a keyboard, a wireless keyboard, a display remote, a handheld computer, a mouse, a trackball, a touch pad, or any other suitable input device.

[0058] Referring back to FIG. 1, users who wish to place wagers may establish an account at transaction processing and subscription management system 24. An account may be established at one of totalisators 30. The user and the interactive wagering services provider may have their own bank accounts at financial institutions 38. A user may set up an account electronically by using user television equipment 22, user computer equipment 20, or user telephone equipment 32 to interact with the subscriber management functions of transaction processing and subscription management system 24. In one suitable approach, accounts may be established with the interactive wagering service with the assistance of customer service representatives at customer service

facility 36. Customer service facility 36 may be at the same location as transaction processing and subscription management system 24, may be a part of system 24, or may be located remote from system 24. Customer service representatives at customer service facility 36 may be reached by telephone. If user telephone equipment 32 is used to access the interactive wagering service, for example, user telephone equipment 32 may be used to reach the customer service representative using communications path 42. If user television equipment 22 or user computer equipment 20 is being used with the interactive wagering service, a telephone at the same location as that equipment may be used to reach the customer service representative.

[0059] The user's identity may be checked using social security number information or other identification information with the assistance of subscriber verification facility 40. The services of subscriber verification facility 40 are used to ensure that the user lives in a geographic area in which wagering is legal, that the user is of a legal age, and that the identification information, for example, the user's social security number, matches the name provided by the user. If the user is using a cellular telephone or handheld computing device, the user's present physical location may be determined by determining which general part of the cellular telephone network is being accessed by the user. In another suitable approach, the user's present physical location may be determined by using the cellular network or a handset-based location device, such as a global positioning system (GPS) receiver in the body of the cellular telephone, to pinpoint the user's

2025 RELEASE UNDER E.O. 14176

location. This location information may be used to verify that the user is located in a geographic area where wagering is legal.

[0060] In a typical enrollment process, the user may provide personal information to the interactive wagering service and provide funds with a credit card or funds from the user's bank account. The interactive wagering service may set up an account for the user at transaction processing and subscription management system 24 and may direct one of totalisators 30 to set up a new account for the user at the totalisator. The totalisator may be directed to credit the user's account to reflect the amount of funds provided by the user. After the user places a wager and wins or loses, the totalisator may adjust the user's totalisator account to reflect the outcome of the wager. The totalisator may periodically inform the interactive wagering service of the adjusted balance in the user's account. This may be accomplished using any suitable technique, for example, periodically, continuously, on-request, or by any other suitable technique. In one suitable approach, reports may be collected periodically, for example, once a day in an end-of-day report, and provided to the interactive wagering service to reconcile the account balances at transaction processing and subscription management system 24 with the account balances at totalisators 30.

[0061] If the user makes a balance inquiry, the inquiry may be passed to the appropriate totalisator by transaction processing and subscription management system 24. If the user is charged a fee for subscribing to the service, the service may debit the fee from the user's account at the transaction processing and subscription management system 24.

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for example, the user may use a remote control or wireless keyboard to navigate the various menus and selectable options. With a personal computer, the user may use a keyboard, mouse, trackball, touch pad, or other suitable input or pointing device. With a cellular telephone with a display, the user may use buttons on the telephone. When the user has made appropriate selections to define a desired wager, user television equipment 22, user computer equipment 20, or user telephone equipment 32 may transmit wagering data for the wager to transaction processing and subscription management system 24.

[0065] Users with telephones may interact with the interactive wagering service using an interactive voice response system or an automated touch-tone keypad system located at transaction processing and subscription management system 24. The interactive voice response system or automated touch-tone keypad system may present menu options to the user in the form of audio prompts, for example, "press 1 to select a \$2 wager amount" or any other suitable audio prompt. The user may interact with the interactive wagering service by pressing the corresponding buttons on a touch-tone telephone. User telephone equipment 32 that is based on cellular telephones may allow the user to interact with the interactive wagering service in this way. User telephone equipment 32 that is based on cellular telephones with messaging and display capabilities may allow the user to interact visually with the interactive wagering service.

[0066] The components of interactive wagering system 10 may be interconnected using various communications paths 44. Communications paths 44 may include satellite paths, coaxial cable paths, fiber-

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[0067] Communications paths that carry video and particularly uncompressed analog video, lightly-compressed digital video, or full-screen digital video generally use more bandwidth than communications paths that carry only data or that carry partial-screen digital video. For example, to transmit high-quality simulcasts of races from racetracks 12 to video production system 14, analog or digital videos may be transmitted from racetracks 12 to video production system 14 over path 44a using satellite links. Video

[0068] A user with a cable modem may connect a personal computer or other such user computer equipment 20 to an associated cable system headend using, for example, path 44d. The headend in such an arrangement would be one of the television distribution facilities 18 shown in FIG. 1. The user may then receive videos from the headend via cable modem. Videos may be provided to the headend over path 44e using a network link, fiber optic links, cable links, microwave links, satellite links, or any other suitable link. A user with a set-top box or similar device, shown in FIG. 1 as user television equipment 22, may receive videos from a cable system headend using a cable modem or other such communications device over path 44f. A user with user television equipment 22 may receive videos over the Internet or a private network using a telephone-based modem or other such communications device using path 44g. In a system with distributed processing, interactive wagering services may be provided using a television distribution facility 18 that includes equipment that supplements or

replaces at least some of the equipment at transaction processing and subscription management system 24.

[0069] In one suitable approach, user television equipment 22 or user computer equipment 20 may receive analog or digital videos from an associated television distribution facility over the communications paths normally used to distribute television programming, such as paths 44f and 44d, respectively. For example, videos may be received as part of a dedicated interactive wagering service television channel. If videos are provided as digital signals, for example, as MPEG signals, 10 or more digital videos may be carried on a single analog channel. In another suitable approach, one digital video may be carried on one-tenth of the bandwidth of an analog channel. If the videos are not full-screen videos, even more videos may be simultaneously provided without a loss of image quality.

[0070] Racing videos may be provided to user telephone equipment 32 over a telephone Internet link or any other suitable telephone link using path 44n.

[0071] In one suitable approach, racing data may accompany the racing videos along any of these paths. Racing videos may be provided by routing them directly from racetracks 12 to user television equipment 22, user computer equipment 20 (e.g., over the Internet or a private network, or any other suitable network), or user telephone equipment 32. Racing videos may be provided by routing them through transaction processing and subscription management system 24. If a cellular telephone, such as cellular telephone 90, or portable computing device has sufficient display capabilities to support moving images, racing videos may be displayed.

2025 RELEASE UNDER E.O. 14176

Such videos may be provided using any suitable path, such as a direct path from racetracks 12, a path through video production system 14 or other suitable video processing equipment, through a hub such as transaction processing and subscription management system 24, or through any other suitable path. Racing videos may be provided in real-time or may be recorded for later distribution. In another suitable approach, videos that are not provided in real-time may be downloaded by user television equipment 22, user computer equipment 20, a cellular telephone, or any other suitable user equipment at a lower data rate than would otherwise be required and may be downloaded in the background. Such videos may be provided to the user at real-time video rates for direct viewing by the user.

[0072] Racing data and other information related to the interactive wagering service may be provided to users over paths connected to transaction processing and subscription management system 24. For example, racing data and other data for the interactive wagering service may be provided to user computer equipment 20 over path 44h using a modem link. Path 44h may be a private network path or an Internet path. Path 44h may use telephone lines, digital subscriber lines, ISDN lines, wireless data paths, or any other suitable type of communications links. User television equipment 22 may receive data for the interactive wagering service over communications path 44i, that may be a telephone line, digital subscriber line, ISDN line, or any other suitable type of communications path and which may use a private network path, an Internet path, or any other suitable path.

[0073] Data for the interactive wagering service may be provided to users of the interactive wagering application via communications path 44j and paths 44f and 44d. Communications path 44j may be provided over a private network, over a public telephone network, over satellite links, or over any other suitable type of links. In one suitable approach, data from paths such as path 44j may be routed to paths such as paths 44f and 44d directly by associated television distribution facilities 18. In another suitable approach, the data may be buffered at television distribution facilities 18. Paths 44f and 44d may include coaxial cable, and use of paths 44f and 44d may involve the use of cable modems or the like. If data is provided over path 44j and paths 44f or 44d using an Internet protocol, a web browser or similar software running on user television equipment 22 or user computer equipment 20 may be used to access the data. Such software may be integrated into the interactive wagering application or may be used separately. In another suitable approach, software may be used to view videos and may be used on other platforms, for example, advanced cellular telephones.

[0074] The communications paths 44k that are used to connect various other components of interactive wagering system 10 typically do not carry high-bandwidth video signals. Accordingly, paths 44k may be telephone-like paths that are part of the Internet or a private network. Such paths and various other paths 44 may be dedicated connections for security, reliability, and economy.

[0075] User telephone equipment 32 may receive information for the interactive wagering service via

2025 RELEASE UNDER E.O. 14176

may be provided to the user by displaying it on the cellular telephone display screen or by presenting it in audible form through the speaker of the cellular telephone.

[0078] Racing data and other interactive wagering service information for the users may be provided in one or more continuous data streams, may be provided periodically (e.g., once per hour or once per day), or may be provided using a client-server arrangement in which data is requested by a client processor (e.g., user television equipment 22, user computer equipment 20, user telephone equipment 32, or any other such equipment) from a server (e.g., a server implemented using computer equipment 26 at transaction processing and subscription management system 24 or computer equipment at another suitable location). Videos may be provided using any of these techniques.

[0079] A return communications path between the user and the interactive wagering service may be used to allow the user to place wagers and otherwise interact with the interactive wagering service. For example, a user with a standard telephone or a cellular telephone may interact with the interactive wagering service by pressing touch-tone keys on the telephone in response to audio prompts provided by an interactive voice response system at transaction processing and subscription management system 24. In one suitable approach, users may call customer service representatives at customer service facility 36 and place wagers with manual assistance. The user of a cellular telephone may interact with the interactive wagering service by selecting menu options and otherwise interacting with information displayed on the

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[0080] Users with user television equipment 22 may interact with the interactive wagering service by sending data, such as wager data, to transaction processing and subscription management system 24 using path 44i or using paths 44f and 44j. Users with user computer equipment 20 may send data, such as wager data, to transaction processing and subscription management system 24 via path 44h or paths 44d and 44j. Users at any user equipment may send data for the interactive wagering service to locations other than transaction processing and subscription management system 24. For example, the user may provide information directly to customer service facility 36, or any other suitable location.

[0081] In one suitable approach, interactive wagering system 10 may send data to the interactive wagering service at transaction processing and

subscription management system 24 using different paths than those used to receive data from transaction processing and subscription management system 24. For example, racing data may be received at user television equipment 22 via paths 44j and 44f, whereas data may be sent by interactive wagering system 10 from user television equipment 22 to transaction processing and subscription management system 24 using path 44i, or any other suitable path. The paths used to receive certain video information may be different from those used to receive racing data. For example, user television equipment 22 may receive racing videos using path 44f, but may receive racing data using path 44i. These examples are merely illustrative. Any suitable combination of paths may be used to distribute racing data and other information for the interactive wagering service, any suitable combination of paths may be used to receive videos, and any suitable combination of paths may be used to send data to the interactive wagering service.

[0082] In one suitable approach, the user may be given the ability to interact with the interactive wagering service using more than one platform. For example, the user may be given the ability to place a wager using a cellular telephone while the user is driving home. When the user arrives home, the user may determine the outcome of the wager by watching a video of the race on user television equipment. Later in the day, the interactive wagering application may provide the user with the ability to check the user's account balance using a personal computer. This is merely an illustrative example. The various wagering platforms may be used in any suitable combination.

[0083] Interactive wagering system 10 has been described in the context of a system that supports multiple wagering platforms. In another suitable approach, interactive wagering system 10 may support fewer platforms. For example, aspects of the invention may be implemented using an interactive wagering system 10 that only supports cellular telephone wagering or wagering using handheld computer devices. In one suitable approach, interactive wagering system 10 may be configured so that it does not support personal computer wagering, wagering with standard telephones, or wagering with user television equipment. The system may support cellular telephones and/or handheld computing devices such as personal digital assistants, palm-sized computers, or any other suitable computing device, in combination with any other suitable platform.

[0084] The features of the present invention are sometimes described herein in the context of an interactive wagering application implemented on user television equipment. This is only illustrative. An interactive wagering application implemented on any suitable platform (user computer equipment, user telephone equipment, or any other suitable platform) may be used to provide such features. In computer arrangements, on-screen options may be selected by clicking on them using a mouse pointer or other pointing arrangement. In set-top box arrangements, on-screen options may be made larger than they appear in computer-based arrangements to accommodate the greater viewing distance from which televisions are typically operated. Options may be selected by highlighting them using remote control arrow keys and by pressing an appropriate key such as an OK or enter or select key.

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[0086] In a set-top box environment, the interactive wagering system may allow the user to launch the interactive wagering application by selecting a menu

option in an interactive television program guide or other set-top box application or menu. In one suitable approach, the interactive wagering application may be launched automatically whenever the user tunes to a particular channel, for example, the wagering-related television channel. After the user has tuned to this channel, the interactive wagering system may display an interactive icon on the user's television screen that indicates that the interactive wagering application is available. If the user presses an "OK" remote control key, the interactive wagering system may launch the interactive wagering application.

[0087] In a computer-based system, the user may access the interactive wagering application by browsing to an Internet web site or a site on a private network.

[0088] Interactive wagering systems based on cellular telephones or the like may be launched by selecting an appropriate on-screen menu option presented on the display of the cellular telephone.

[0089] The present invention is directed to systems and methods for automatically providing information relating to wagering to users of an interactive wagering application. A user may create a wager, and the interactive wagering application of the present invention may provide the user with information relating to the wager. For example, a user may create and place a wager for a specific race. When the race is finished, the interactive wagering application of the present invention may automatically provide the user with the results of the race and the wager. When a user creates a wager for a specific race but neglects to place the wager, prior to the start of the race the interactive wagering application may automatically

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provide the user with an alert that the user has a wager that has not yet been placed for an upcoming race.

[0090] As context for the present invention, a brief description showing one possible example of a wager creation is provided. Referring now to FIGS. 7-12, one possible way to create a wager suitable for use with the systems and methods of the present invention is described. The screens in FIGS. 7-12 are described in detail in Marshall et al. United States patent application No. 09/616,478, filed July 14, 2000, and are summarily described here.

[0091] An illustrative menu screen 146 that may be provided by an interactive wagering application is shown in FIG. 7. Screen 146 and the screens shown in FIGS. 8-12 are examples of screens that may be displayed on a satellite receiver set-top box or other user television equipment 22. In another suitable approach, the format and contents of such screens may be modified to accommodate different platforms such as user computer equipment platforms (e.g., user computer equipment 20) and user telephone equipment platforms (e.g., user telephone equipment 32). The information and options of the screens of FIGS. 7-12 may be provided using audio prompts to accommodate telephone-based wagering from touch-tone telephones.

[0092] As shown in FIG. 7, menu screen 146 may include a number of different options 147. For example, options may be provided to place a bet, to view a bet history, to view handicapping information such as odds, to view race results, to view a list of the user's wagers, to move to the next player (when multiple players are wagering at a single session), or

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to obtain help. Screen 146 may be displayed as an overlay on top of a wagering-related television channel, as shown, or as an overlay on top of any suitable video or application.

[0093] When the user selects place a bet option 149 of FIG. 7 by, for example, navigating highlight region 148 over place a bet option 149 and pressing an appropriate key on the remote control (e.g., OK key), the interactive wagering application may display a screen such as racetrack selection screen 150 of FIG. 8. As shown in FIG. 8, the racetrack name field for each selectable racetrack option has a corresponding information area. For example, racetrack name field 152 has a corresponding information area 154.

[0094] Screen 150 may contain a wagering ticket 156. Indicator 158 may be used to visually indicate which portion of the wagering ticket 156 is currently being filled in. In the example of FIG. 8, the user is selecting a desired racetrack for a wager. The interactive wagering application may give the user the ability to select desired racetracks using highlight region 160. As shown, the user has selected the Gulfstream track, with code 162 (i.e., GP).

[0095] When the user selects a track, the interactive wagering application may present the user with a screen such as race selection screen 166 of FIG. 9. In screen 166, the user may be given the ability to move highlight region 168 over a desired selectable race option, such as race 5. When the user highlights a desired race, the race number may be added to ticket 156 in region 157, and indicator 158 may be

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positioned to make it clear that the user is selecting a race.

[0096] When the user selects a desired race, the interactive wagering application may display a wager type selection screen such as screen 184 of FIG. 10. The user may be given the ability to place highlight region 186 over a desired selectable wager type option, for example, win, place, show, exacta, trifecta, or any other suitable option. The wager types are listed in wager type fields such as wager type field 188. In the example of FIG. 10, wager type field 188 (i.e., exacta) has a corresponding information area 190. The information in information area 190 may be a wager type description for the corresponding wager type listed in wager type field 188. Wager ticket 156 may be updated to reflect the highlighted wager type (i.e., exacta). This information is displayed in region 192.

[0097] When the user selects the desired wager type, the interactive wagering application may display a horse selection screen such as screen 196 of FIG. 11. As shown in FIG. 11, the names of the horses are listed in selectable horse option name fields such as horse name field 198. Corresponding information areas such as information area 200 are used to display information such as the current win odds for each horse. Horse numbers such as horse number 202 are provided adjacent to each horse name. As shown in FIG. 11, each horse number may be a different color.

[0098] When the user has finished selecting horses, the interactive wagering application may give the user the ability to select a wager amount, as shown in screen 222 of FIG. 12. A highlight region 223 may be used to highlight a desired wager amount option. A

2025 RELEASE UNDER E.O. 14176

number of wager amount fields 224 may be displayed, each containing a different wager amount. A corresponding information area 226 may be displayed for each wager amount field 224. In the arrangement of FIG. 12, each information area 226 displays the results of a calculation indicating how much the user's total wager would amount to after taking into account any multiple runner selection that the user has made. Wager amount 128 (i.e., \$4) and total amount being wagered 230 (i.e., \$8) may be reflected in wagering ticket 156. As shown in wagering ticket 156, the user has selected the track, race, wager type, horses, and wager amount, amounting to one example of creating a wager.

[0099] After a user has created a wager, for example, as described above in FIGS. 7-12, the interactive wagering application may provide the user with the ability to either place the wager or refrain from placing the wager. If the user chooses to place the wager, the interactive wagering application may submit the wager to transaction processing and subscription management system 24, as shown in FIG. 1. If the user chooses to refrain from placing the wager, the interactive wagering application may store the wager until such time that the user desires to submit it to transaction processing and subscription management system 24. The interactive wagering application of the present invention may automatically provide to the user information related to, for example, both of the above-described scenarios. It should be understood that the interactive wagering application may provide the user with information related to other wagering types and scenarios.

the user that more information is available regarding a specific race. In the illustrated case, directions 306 are used by the interactive wagering application to inform the user that provider logo 304 may be selected to obtain more information on the outcome of the race. In an interactive television wagering application, for example, the user may press the select button on a remote control, such as remote control 60 of FIG. 2 or remote control 76 of FIG. 3, to select provider logo 304. As a result, the interactive wagering application may provide the user with a screen (not shown) similar to those described in FIGS. 7-12 that may include information regarding the particular race.

[0102] FIG. 14 shows another screen 400 that may be provided after a user has created and placed a wager. While indicator display 308 of FIG. 13 may include informative message 302, indicator display 308 of FIG. 14 may include additional information regarding the race and wager. This additional information may include, for example, racetrack 316, race number 318, winnings amount 320, place 310 and the corresponding horse number 312, or any other suitable information. The interactive wagering application may provide the user with the ability to scroll through places 310 and horse numbers 312 by using, for example, arrows 314. The user may use arrow keys on a remote control, such as remote control 60 of FIG. 2 or remote control 76 of FIG. 3, to scroll up and down. The user may be given the ability to select provider logo 304 using the select button of a remote control to obtain more information.

[0103] FIG. 15 an illustrative screen 500 that may be provided after a user has created but not yet placed a wager. While screens 300 and 400 of FIGS. 13 and 14,

respectively, may include information related to a race that has finished, screen 500 may include information related to a race that has not yet started. For example, indicator display 308 of FIG. 15 may appear prior to the start of a race for which a user has created, but not yet placed, a wager. Indicator display 308 may include a message 510 that may indicate that the user has a bet saved for racetrack 504 and race number 506. Indicator display 308 may include a message 502 that may provide the user with the time until the start of the race (i.e., 20 minutes). Directions 508 may be included to inform the user of how to place the saved bet. In the illustrated case, directions 508 may be used by the interactive wagering application to inform the user that provider logo 304 may be selected to place the bet. In an interactive television wagering application, for example, the user may press the select button on a remote control, such as remote control 60 of FIG. 2 or remote control 76 of FIG. 3, to select provider logo 304. This may provide the user with a screen (not shown) similar to those described in FIGS. 7-12 that may include information regarding the bet. In another suitable approach, selecting provider logo 304 may automatically submit the bet to, for example, transaction processing and subscription management system 24, as shown in FIG. 1.

[0104] The screens shown in FIGS. 13-15 are examples of screens that may be displayed on a satellite receiver set-top box or other user television equipment 22, such as television 58 of FIG. 2 or television 74 of FIG. 3. The format and contents of such screens may be modified to accommodate different platforms, such as user computer equipment and user telephone equipment platforms. The information and

options of the screens shown in FIGS. 13-15 may be provided using audio prompts to accommodate telephone-based wagering from touch-tone telephones.

[0105] FIG. 16 shows an illustrative screen 600 that may be provided by an interactive wagering application implemented on user computer equipment. Such a screen may be provided on, for example, monitor 84 of FIG. 4. Screen 600 may be provided after a user has created and placed a wager. Screen 600 may include a computer application. Such an application may be related to the interactive wagering application. In another suitable approach, the computer application may be unrelated to the interactive wagering application. After the race that the user has created and placed a wager on is finished, indicator window 602 may pop up over the computer application. Indicator window 602 may include informative message 608, link 606, and provider logo 604.

[0106] Informative message 608 may be used by the interactive wagering application to indicate to the user that the race that the user previously created and placed a wager on has finished. Thus, without requesting the outcome of the race or the wager, the interactive wagering application may automatically provide the user with this information in, for example, indicator window 602. Link 606 may be displayed in display screen 600 to indicate to the user that more information is available regarding the specific race. The user may select link 606 using, for example, a mouse, a keyboard (e.g., keyboard 86 of FIG. 4), or a remote control (e.g., remote control 88 of FIG. 4), to obtain more information on the outcome of the race. In the illustrated case, when the user selects link 606,

the interactive wagering application may display a website having content similar to the content of the television screens described in FIGS. 7-12.

[0107] FIG. 17 shows an illustrative display 700 that may be provided by an interactive wagering application implemented on user telephone equipment, for example, cellular telephone equipment. Display 700 may be provided on, for example, cellular telephone 90 of FIG. 5. Indicator 702 may be displayed on display 700 after a user has created and placed a wager. For example, information 702 may pop up on display 700 after the race that the user created and placed a wager on is finished.

[0108] The user may be alerted to the presence of indicator 702 through a series of beeps or any other suitable audio indicator emitted by speaker 96. The use of audio indicators is merely illustrative. Any other suitable technique for obtaining the user's attention may be used (e.g., vibrations).

[0109] Due to the small size of display 700, information 702 may only include a small amount of information at a time. To obtain additional information, the user may use arrow keys 108 to scroll through race-related information. In another suitable approach, the interactive wagering application and interactive wagering system 10 may provide the user with the ability to call a specific phone number to obtain more information on the race and the wager. If the cellular telephone is capable of accessing the World Wide Web, the user may be given the ability to obtain additional information from a race-related website via that functionality.

[0110] FIG. 18 shows a flow chart of illustrative steps involved in providing a user with information related to a wager. Some or all of the steps may be performed. At step 802, the user may be provided with the ability to create a wager for a specific race. After creating the wager, the user may follow one of at least two possible paths. In one path, the user may create and place the wager. In another path, the user may create the wager but may not place the wager. If the user creates and places the wager, the user may be provided with the results of the wager after the race is completed at step 804.

[0111] If the user creates the wager but does not place the wager, the user may be provided with an opportunity to place the wager before the specific race begins at step 806. If the user chooses to place the wager, the user may be provided with the results of the wager after the race is completed at step 808.

[0112] Thus, systems and methods for automatically providing information related to wagering are provided. One skilled in the art will realize that the present invention can be practiced by other than the described embodiments, which are presented for purposes of illustration and not of limitation, and that the present invention is limited only by the claims which follow.